

(Fig. 14). The interventional device is delivered through a sheath 27 and the proximal end of the sheath is coupled to a collection vessel 22 or collection syringe chamber 25. The fluid injection lumen 18 is connected to a fluid supply which may be a supply syringe chamber 14.

All the method claims carry apparatus limitations including a balloon.

The amendments to the claims require the addition of a co-inventor who is named in the Declaration submitted herewith. It is Applicant's understanding that the provisions of 37 CFR 1.48(c) do not require a petition under these circumstances.

In The Claims

Kindly cancel claims 1-6 and 10-17 drawn to not elected inventions without prejudice.

Kindly amend claims 7-9 as follows and kindly enter new claims 18-27.

7. A method of removing particulate debris from a vessel using a catheter assembly the method comprising:

inserting and advancing a sheath having a discharge lumen to a location in the vessel said delivery sheath discharge lumen coupled to a collection vessel;

inserting and advancing an interventional device to a treatment location, said interventional device of type having;

a therapy balloon for delivering treatment;

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No
Mark Up* a gap for introducing a primary fluid flow in said vessel, said gap located distal of said therapy balloon;

injecting fluid out of said gap to promote retrograde flow into said discharge lumen.

8. The method of claim 18 wherein said moving step begins near said occlusion and ends after the interventional device enters the delivery sheath.

9. The method of claim 7 wherein said fluid is injected at a first injection pressure above the blood pressure in the vessel and expands to a second exhaust pressure in said delivery catheter where said exhaust pressure is above said blood pressure, establishing a pressure gradient in said discharge lumen and promoting flow from said gap to said discharge lumen.

New Claims:

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18. The method of claim 7 wherein said injection is carried out while moving said interventional device in said vessel with respect to said delivery sheath.

19. The method of claim 7 wherein said discharge lumen is coupled to a syringe collection chamber.

20. The method of claim 7 wherein said discharge lumen is coupled to a syringe vacuum chamber.

21. The method of claim 7 wherein said primary fluid is supplied by a supply syringe chamber.

22. The method of claim 21 wherein the fluid supplied is a thrombolytic.

23. The method of claim 21 wherein the fluid supplied is saline.

24. The method of claim 21 wherein the fluid supplied is contrast agent.

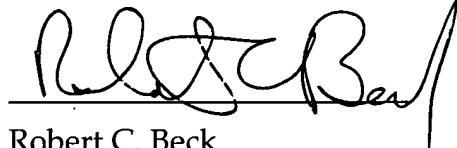
25. The method of claim 7 wherein the therapy balloon provides angioplasty therapy.

26. The method of claim 7 wherein the therapy balloon provides stent placement therapy.

27. The method of claim 7 wherein said primary fluid is supplied by a supply syringe chamber and said discharge lumen is coupled to a syringe vacuum chamber, and said supply syringe and vacuum syringe are operated together to couple fluid supply with discharge lumen collection.

Respectfully submitted,
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By its attorneys:

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